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Amend. *ting* 4-21-04

IN THE CLAIMS

Please cancel Claims 5, 15, 21-30, 35, 45, 51-60, 65, 75 and 81-105 and
Amend the remaining Claims in accordance with the following mark-up copy:

1. (Currently Amended) A wireless communication device, comprising:

 a first synthesizer for generating a first radio frequency (RF)
signal, the first RF signal including a sequence of carriers;

 a transmitter for transmitting the first RF signal;

 a receiver for receiving a second RF signal from a remote wireless
device phase locked with the first wireless device, the second RF signal
including a sequence of carriers corresponding to the carriers of the
first RF signal, wherein the frequencies of the corresponding sequence of
carriers of the first RF signal are different from the frequencies of the
sequence of carriers of the second RF signal;

 a second synthesizer for generating a third RF signal, the third RF
signal including a sequence of carriers corresponding to the carriers of
the first and second RF signals, wherein the phase of the third RF signal
is coherent with the phase of the first RF signal, and wherein the
frequencies of the sequence of carriers of the second RF signals are the
same as the frequencies of the sequence of carriers of the third RF
signal;

 a phase detector for comparing the phase of each of the carriers of
the second RF signal to the phase of each of the corresponding carriers of
the third RF signal and generating a sequence of phase offsets; and

 a processor for determining distance between the wireless